

S2 Table

Differentially expressed genes in the CPZ model selected for targeted proteomics in MS-CSF and their expression in MS lesions

Gene	Protein	WM	GM	GWAS	Peptide sequences
<i>ADAMTS1</i>	A disintegrin and metalloproteinase with thrombospondin motifs 1				LGRPSEEDEELVVP ELER QGDVGGTCGVVDDEPRPTGK
<i>AIF1</i>	Allograft inflammatory factor 1	x			YSSDEDLPSKLEGFK LIGEVSSGSGETFSYPDFLR
<i>ANGPTL4</i>	Angiopoietin-related protein 4	x			QSG LFEIQPQGSPPFLVNCK MTSDGGWTVIQR
<i>APOC2</i>	Apolipoprotein C-II				ESLSSYWESAK TAAQNLYEK TYLPAVDEK
<i>AXL</i>	Tyrosine-protein kinase receptor UFO	x			CQLQVQGEPPEVHWLR TATITVLPQQPR APLQGTLLGYR
<i>B2M</i>	b2-microglobulin	x			VEHSDLSFSK DWSFYLLYYTEFTPTEK VNHVTL SQPK
<i>CD83</i>	CD83 antigen				GQNGSFDAPNERPYSLK LQSIFPDFSK
<i>CD84</i>	SLAM family member 5				IHALGPNYNLVISDLR

				ADINTQADPYTTTK
<i>CERS2</i>	Ceramide synthase 2			APPNATLEHFYLTSGK SRPLANGHPILNNHR
<i>CMTM5</i>	CKLF-like MARVEL transmembrane domain-containing protein 5	x		DRHPEEGVVAELQGFAVDK HPEEGVVAELQGFAVDK
<i>CNTF</i>	Ciliary neurotrophic factor			SDLTALTESYVK NEADGMPINVGDGGLFEK
<i>CNTN2</i>	Contactin-2	x		FAQLNLAAEDTR VISDTEADIGSNLR LSLEDSGMYQCVAENK
<i>DBNDD2</i>	Dysbindin domain-containing protein 2	x		LPPLPR
<i>DHCR7</i>	7-dehydrocholesterol reductase, pathway cholesterol biosynthesis	x		LLVSGFWGVAR YTAAVPYR
<i>EDIL3</i>	EGF-like repeat and discoidin I-like domain-containing protein 3	x		VTGVITQGAK GNIDNNTPYANSFTPIIK
<i>ELOVL1</i>	Elongation of very long chain fatty acids protein 1	x		MEAVVNLYQEVMK ALQQNGAPGIAK
<i>ERBB3</i>	Receptor tyrosine-protein kinase erbB-3	x		LTFQLEPNPHTK GFSLLIMK
<i>FGFR2</i>	Fibroblast growth factor receptor 2	x		DAAVISWTK TVLIGEYLQIK

					DSGLYACTASR
<i>GAL3ST1</i>	Galactosylceramide sulfotransferase	x			TASSTLLNILFR ATAWNMLDSHLYR
<i>GDF15</i>	Growth/differentiation factor 15		x		ASLEDLGWADWVLSR EVQVTMCIGACPSQFR TDTGVSLQTYDDLAK
<i>GPR65</i>	Psychosine receptor			x	YLAVVYPLK KVYQAVR
<i>GSN</i>	Gelsolin	x			EVQGFESATFLGYFK QTQVSVLPEGGETPLFK AVEVLPK DSQEEKTEALTSK
<i>HCST</i>	Hematopoietic cell signal transducer	x			SPAQEDGK VYINMPGR
<i>HP</i>	Haptoglobin				LRTEGDGVYTLNNEK DIAPTLTLYVGK YVMLPVADQDQCIR VTSIQDWVQK
<i>IL12RB1</i>	Interleukin-12 receptor subunit beta-1			x	SPEVTLQLYNSVK MEWETPDNQVGAEVQFR FSVEQLGQDGR

<i>IGF1</i>	Insulin-like growth factor I				APQTGIVDECCFR GFYFNKPTGYGSSSR RLEMYCAPLKPAK
<i>IL33</i>	Interleukin-33				DFWLHANNK TDPGVFIGVK VDSSENLCTENILFK
<i>IRF8</i>	Interferon regulatory factor 8			x	SPDFEEVTDR IVPEEEQK DEVVQVFDTSQFFR
<i>ITGB4</i>	Integrin beta-4				VDKDCAYCTDEMFR ALEHVDGTHVCQLPEDQK LVFSALGPTSLR
<i>KLK6</i>	Kallikrein-6	x			KPNLQVFLGK ESSQEQQSSVVR AVIHPDYDAASHDQDIMLLR LSELIQPLPLER
<i>LDLR</i>	Low-density lipoprotein receptor				NVVALDTEVASNR VFWTDIINEAIFSANR
<i>LGALS1</i>	Galectin-1	x			SFVLNLGK FNAHGDANTIVCNSK LNLEAINYMAADGDFK

<i>LPAR1</i>	Lysophosphatidic acid receptor 1				LTVSTWLLR SENPTGPTEGSDR
<i>LYZ</i>	Lysozyme C		x		WESGYNTR ATNYNAGDR STDYGIFQINSR
<i>MAG</i>	Myelin-associated glycoprotein	x			LLGDLGLR DTVQCLCVVK SLELPFQGAHR
<i>MBP</i>	Myelin basic protein	x	x		YLATASTMDHAR DTGILDSIGR TQDENPVVHFFK
<i>MOG</i>	Myelin-oligodendrocyte glycoprotein	x			ALVGDEVELPCR FSDEGGFTCFRR DHSYQEEAAMELK
<i>MYOF</i>	Myoferlin				IPAHQVLYSTSGENASGK SLGPPGPPFNITPR
<i>QDPR</i>	Dihydropteridine reductase	x			QSIWTSTISSHLATK EGLLTLGAK GAVHQLCQSLAGK
<i>S100A4</i>	Protein S100-A4		x		ALDVMVSTFHK ELPSFLGK

<i>SERPIND1</i>	Heparin cofactor II				GGETAQSADPQWEQLNNK QFPILLDFK TLEAQLTPR
<i>SYNGR1</i>	Synaptogyrin-1	x			AGGAFDPYTLVR DNPLNEGTDAAAR
<i>STMN1</i>	Stathmin	x			ASGQAFELILSPR SKESVPEFPLSPPK ESVPEFPLSPPK
<i>SYNJ2</i>	Synaptojanin-2	x			YDVGSAAYDTSK GGASEEALSAVAPR
<i>TGFBI</i>	Transforming growth factor-beta-induced protein ig-h3				GRQHGPNVCAVQK STVISYECCPGYEK DGTPPIDAHTR YLYHGQTLETGGK
<i>TIMP1</i>	Metalloproteinase inhibitor 1		x		GFQALGDAADIR FVYTPAMESVCGYFHR EPGLCTWQSLR
<i>TMEFF2</i>	Tomoregulin-2		x		IGDTVTCVCQFK IEVMSLGR
<i>TNFRSF1A</i>	Tumor necrosis factor receptor superfamily member 1A		x	x	ECESGSFTASENHLR QNTVCTCHAGFFLR

<i>TREM2</i>	Triggering receptor expressed on myeloid cells 2		x		VVSTHNLWLLSFLR VLVEVLADPLDHR
<i>TYROBP</i>	TYRO protein tyrosine kinase-binding protein		x		ITETESPYQELQGQR SDVYSDLNTQRPYYK
<i>UBD</i>	Ubiquitin D				SEEWDLMTFDANPYDSVK TKVPVQDQVLLLGSK